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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,488	10/20/2003	Mohammad T. Khalid	CE11095JI260	7870

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EXAMINER

LEE, JOHN J

ART UNIT PAPER NUMBER

2618

DATE MAILED: 03/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/689,488	<b>Applicant(s)</b> KHALID ET AL.	
	<b>Examiner</b> JOHN J. LEE	<b>Art Unit</b> 2684	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 January 2006.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-16 is/are allowed.
- 6) ☒ Claim(s) 17-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Response to Arguments/Amendment*

1. Applicant's arguments with respect to claims 17 – 20 have been considered but are moot in view of the new ground(s) of rejection.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 17 - 20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhu (US 2004/0192398) in view of Eromaki et al. (US 2004/0058703).

Regarding **claim 17**, Zhu discloses that a multi-configuration electronic device (mobile telephone in Fig. 1) (Fig. 1 and pages 1, paragraphs 15). Zhu teaches that a display module rotatable mounted in the body portion having a viewing surface (display section (12) in Fig. 1) (Fig. 1 and pages 1, paragraphs 15 - 16, where teaches a body portion having a display module with viewing surface rotatably mounted in the upper body portion). Zhu teaches that the display module rotatable such that the viewing surface (display section) moves from being aligned with a first surface and a second surface (Fig. 1 teaches the upper body having display section moving with being aligned with upper body) when the body portion is moved from a first position (Fig. 1) to a second position (Fig. 2) (Fig. 1, 2 and pages 1, paragraphs 15 – pages 2, paragraphs 18, where teaches as the upper body portion is moved from a first position (Fig. 1) to a

second position (Fig. 2), the upper body having display section moving with being aligned with upper body). Zhu teaches that automatically causing rotation of the display module as the body portion is moved from a first position to a second position (Fig. 2, 5 and pages 2, paragraphs 21 – 25, where teaches the display section rotates with the upper body portion automatically as the upper body moved from the first position to a second position).

Zhu does not specifically disclose the limitation “a pair of axial bosses for rotatably supporting the display module in the body portion and automatically causing rotation of the display module as the body portion is moved from a first position to a second position”. However, Eromaki discloses the limitation “a pair of axial bosses for rotatably supporting the display module in the body portion and automatically causing rotation of the display module as the body portion is moved from a first position to a second position” (Fig. 3 and pages 3, paragraphs 37 – 42, where teaches a mobile device has a display module having a pair of axial bosses for automatically rotatably supporting the display module in the body portion as the body portion is moved from a first position to a second position). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Zhu structure as taught by Eromaki, provide the motivation to achieve enhancing mobile device display function for user’s convenient in mobile communication system.

Regarding **claim 19**, Zhu and Eromaki disclose all the limitation, as discussed in claim 17. Zhu rotation comprises a gear and axle assembly (Fig. 3, 5 and pages 2,

paragraphs 17 – 24, where teaches the display section of upper body portion rotates by gear (mechanism) and axle assembly linked between upper body and main body portion).

Regarding **claim 20**, Zhu and Eromaki disclose all the limitation, as discussed in claim 17.

4. **Claim 18** is rejected under 35 U.S.C. 103(a) as being unpatentable over Zhu in view of Eromaki and in further view of Nakamura et al. (US Patent number 6,829,490).

Regarding **claim 18**, Zhu and Eromaki teach all the limitation, as discussed in claim 17. However, Zhu and Eromaki do not specifically disclose the limitation “causing rotation comprises a belt”. However, Nakamura discloses the limitation “causing rotation comprises a belt” (Fig. 2, 3 and column 3, lines 17 – column 4, lines 10, where teaches a belt slips connected/linked between upper body portion and main body portion). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Zhu and Eromaki structures as taught by Nakamura, provide the motivation to achieve improving connection function for rotation and preventing banding damage in mobile terminal.

5. Claims 1 – 16 are allowed.

Claims 1 – 16 are allowable over the prior art of record because a search does not detect the combined claimed elements as set forth in the claims 1 – 16.

As recited in independent claim 1, none of the prior art of record teaches or fairly suggests that a multi-configuration device comprises a first body portion having

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a display module, the display module rotatable mounted in the first body portion and having a viewing surface, and the display module rotates in the first body portion automatically so that it can be seen in either the open or closed position where the viewing surface is aligned with an outside surface of the first body portion when the first body portion is in the closed position and aligned with an inside surface of the first body portion when the first body portion is in the open position, and together with combination of other element as set forth in the claims 1 – 16. Therefore, claims 1 – 16 are allowable over the prior art of records.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Watanabe (US Patent number 6,519,483) discloses Portable Wireless Information Terminal Apparatus in Which View of Display Unit and Operation of Operational Section are Easy to Perform During Using.

Goebel et al. (US 2005/0113135) discloses Mobile Telephone Fitted With a Pivotal Camera.

Information regarding...Patent Application Information Retrieval (PAIR) system... at 866-217-9197 (toll-free)."

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231  
Or P.O. Box 1450  
Alexandria VA 22313

or faxed (571) 273-8300, (for formal communications intended for entry)

Or: (703) 308-6606 (for informal or draft communications, please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to USPTO Headquarters, Alexandria, VA.

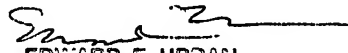
Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John J. Lee** whose telephone number is **(571) 272-7880**.

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He can normally be reached Monday-Thursday and alternate Fridays from 8:30am-5:00 pm. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, **Edward Urban**, can be reached on (571) 272-7899. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4700.

J.L  
March 14, 2006

John J Lee

  
EDWARD F. URBAN  
SUPERVISORY PATENT EXAMINER  
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